

Release notes for ENDF/B Development n-006\_C\_013  
evaluation



April 26, 2017

- **psyche** Warnings:

1. Non-threshold reaction with Q value differing from PSYCHE's expectations  
*FILE 3 / SECTION 102 / THE CALCULATED Q 8.16262E+06 DISSAGREES WITH THE GIVEN Q 4.94628E+06 (0): Iffy Q*

```
FILE 3
SECTION 102
      THE CALCULATED Q  8.16262E+06 DISSAGREES WITH THE GIVEN Q  4.94628E+06
```

- **fudge-4.0** Warnings:

1. First cross section point not zero right at threshold  
*reaction label 1: n + C13\_e1 / Cross section: (Error # 0): nonZero\_crossSection\_at\_threshold*

WARNING: First cross section point for threshold reaction should be 0, not 6.897122e-05

2. First cross section point not zero right at threshold  
*reaction label 2: n + C13\_e2 / Cross section: (Error # 0): nonZero\_crossSection\_at\_threshold*

WARNING: First cross section point for threshold reaction should be 0, not 0.0001360326

3. First cross section point not zero right at threshold  
*reaction label 3: n + C13\_e3 / Cross section: (Error # 0): nonZero\_crossSection\_at\_threshold*

WARNING: First cross section point for threshold reaction should be 0, not 1.54136e-10

4. Cross section does not match sum of linked reaction cross sections  
*crossSectionSum label 0: total (Error # 0): CS Sum.*

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.36%

- **njoy2012** Warnings:

1. The cross section is nonzero at threshold  
*reconr...reconstruct pointwise cross sections in pendf format (0): Sig(Eth)>0*

```
---message from lunion---xsec nonzero at threshold for mt= 51
      adjusted using jump in xsec
```

2. The cross section is nonzero at threshold  
*reconr...reconstruct pointwise cross sections in pendf format (1): Sig(Eth)>0*

```
---message from lunion---xsec nonzero at threshold for mt= 52
      adjusted using jump in xsec
```

3. The cross section is nonzero at threshold  
*reconr...reconstruct pointwise cross sections in pendf format (2): Sig(Eth)>0*

```
---message from lunion---xsec nonzero at threshold for mt= 53
      adjusted using jump in xsec
```

4. This nuclide has no URR and NJOY is upset about it  
*unresr...calculation of unresolved resonance cross sections (0): No URR*

```

---message from unresr---mat 628 has no resonance parameters
copy as is to nout

```

5. Cross sections were found for charged-particle levels in the 600 or 700 series of MT numbers, but no corresponding angular distributions were found. Isotropy is assumed to enable the calculation to proceed, but this evaluation should be upgraded to include the proper sections of File 4 or 6.  
*heatr...prompt kerma (0): HEATR/hinit (1)*

```

---message from hinit---mf4 and 6 missing, isotropy assumed for mt 800

```

6. This nuclide has no URR and NJOY is upset about it  
*purrr...probabalistic unresolved calculation (0): No URR*

```

---message from purrr---mat 628 has no resonance parameters
copy as is to nout

```

- **acelst** Warnings:

1. The incident energy grid is not monotonic for this angular distribution  
*0: Bad Ang. Dist.*

```

ACELST WARNING - Processing Ang.Dist.MT          2
                  E-grid non-monotonic  7.200000000E+00 7.200000000E+00

```

2. The incident energy grid is not monotonic for this angular distribution  
*1: Bad Ang. Dist.*

```

ACELST WARNING - Processing Ang.Dist.MT          51
                  E-grid non-monotonic  7.200000000E+00 7.200000000E+00

```

3. The incident energy grid is not monotonic for this angular distribution  
*2: Bad Ang. Dist.*

```

ACELST WARNING - Processing Ang.Dist.MT          52
                  E-grid non-monotonic  7.200000000E+00 7.200000000E+00

```

4. The incident energy grid is not monotonic for this angular distribution  
*3: Bad Ang. Dist.*

```

ACELST WARNING - Processing Ang.Dist.MT          53
                  E-grid non-monotonic  7.200000000E+00 7.200000000E+00

```

- **xsectplotter** Errors:

1. Exception AttributeError was thrown  
*(Error # 3): AttributeError*

```

AttributeError: 'str' object has no attribute 'name'

```